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# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 17] नई दिल्ली, शनिवार, अप्रैल 29, 1989 (वैशाख 9, 1911)  
No. 17] NEW DELHI, SATURDAY, APRIL 29, 1989 (VAISAKHA 9, 1911)

इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
Separate paging is given to this Part in order that it may be filed as a separate compilation

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 29th April 1989

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

Telegraphic address "PATENTOFIS".

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Todi Estates, III Floor, Lower Parel (West),  
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Calcutta-700 020.

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## CORRIGENDUM

In respect of Patent Application No. 909/Mas/88, in the Gazette of India, Part-III, Section-2, dated the 22nd December, 1988, name of the applicant "M. Gopison" read as "M. Gopi".

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under section 135, of the Patents Act, 1970.

The 20th March 1989

224/Cal/8. E. I. Du Pont De Nemours & Company. Method for detecting the presence of contaminants in a reusable plastic food or beverage container.

225/Cal/89. E. I. Du Pont De Nemours & Company. Improvements in polyester fibers. (Convention dated 18th March, 1988) U. K.

The 21st March 1989

226/Cal/89. O & K Orenstein & Koppel Aktiengesellschaft. Mobile or stationary breaking equipment for minerals, in particular lump material.

227/Cal/89. NGK Insulators, Ltd. Lightning arrestor insulator and method of producing the same.

228/Cal/89. Marc Ballivet and Stuart Alan Kauffman. Process for the preparation of a vaccine. [Divisional date 20th February, 1986].

The 23rd March 1989

229/Cal/89. Anand Swaroop Mahajan. A new technique for high velocity forming of metals.

230/Cal/89. Malhati Tea & Industries Ltd. A process for preparation of instant tea in liquid form.

231/Cal/89. Carrington Laboratories, Inc. Process for preparation of aloe products, products produced thereby, compositions thereof and process for making such compositions. [Divisional date 26th June, 1986].

The 27th March 1989

232/Cal/89. Protap Kumar Ghose and Dipak Kumar Das. An improved arrangement for mounting the overhead guard of a fork-lift truck.

233/Cal/89. The Australian National University. Process for producing a diamond compact. [Divisional date 10th February, 1986].

234/Cal/89. NGK Insulators, Ltd. Optical fiber composite insulator and method for producing the same.

235/Cal/89. Pure-Harvest Corporation. Apparatus and method for cultivating rice and other crops.

236/Cal/89. The Lemna Corporation. Floating aquatic plant water treatment system.

237/Cal/89. Reo Limited Partnership. Process for fractionating a mixture of rare earth metals by ion exchange.

238/Cal/89. Siemens Aktiengesellschaft. Insulating tape for the production of an insulating sheath impregnated with a heat hardening epoxy resin-acid anhydride mixture for electrical conductors.

The 29th March 1989

239/Cal/89. Protap Kumar Ghose and Jagadismohan Guha. An attachment to the control valve of a fork-lift.

240/Cal/89. Didier-Werke Ag. and Deutsche Forschungs-Und Versuchsanstalt für Luft - Und Raumfahrt E. V. The Device for the conversion of solar energy into operation heat.

241/Cal/89. Siemens Aktiengesellschaft. Method of, and equipment for, operating a gas turbine.

242/Cal/89. Galatron S.r.l. 'Breech-block' tap for the supply of cold or hot water with ceramic sealing plates.

243/Cal/89. Neste Oy. Gastight material.

## APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, SUNMILL COMPOUND, LOWER PAREL (W), BOMBAY-13.

The 28th February 1989

47/Bom/89. Hindustan Lever Limited. Quaternary ammonium compounds for use in bleaching systems. 1st March 1988 & 14th Nov. 88. Gr. Britain.

48/Bom/89. Hindustan Lever Limited. Anticalculus oral compositions 1st March 88. Gr. Britain.

49/Bom/89. Mrs. Shamal Jaishankar Nirody. A warning device.

50/Bom/89. Anant Narayan Namjoshi, C. G. Patel, M. B. Patel & S. G. Karandikar. An improved blending machine.

The 1st March 1989

51/Bom/89. Auduth Timblo. An improved structure and method for loading/unloading ores.

52/Bom/89. Rakesh C. Trivedi. An improved stationary equipment.

The 2nd March 1989

53/Bom/89. Anand Malik. An improved device for stopping leakage from public hydrants.

54/Bom/89. Dr. Rachchpal Singh Bali. House fabrication entitled brickless pucca mud house.

55/Bom/89. M/s. Simplex Castings. An improved coke oven door.

The 3rd March 1989

56/Bom/89. Garware-Wall R & D Division. An improved telephone cable pulling system.

57/Bom/89. Harshad Sardesai. A device for separating contaminants, such as, water and other solid particles from fuel.

58/Bom/89. Harshad Sardesai. A device for separating contaminants, such as, water and other solid particles from fuel.

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

The 6th March 1989

183/Mas/89. Dr. Nagendra Prasad Komarla Venugopal. A nasal filter.

184/Mas/89. Minnesota Mining and Manufacturing Company. Refastenable Adhesive tape closure.

185/Mas/89. Fotoking Passbildsysteme. A photographic portrait shooting apparatus.

The 7th March 1989

186/Mas/89. Maschinenfabrik Rieter AG. Combing machine-individual bead monitoring.

187/Mas/89. Philip Morris Products Inc. Method of making tobacco rod with enhanced firmness.

188/Mas/89. BASF Aktiengesellschaft. Preparation of hydroxylammonium salts.

189/Mas/89. Heinz Georg Baus. Method for producing multi-layer panels.

The 10th March 1989

190/Mas/89. Ramachandran Khannan. An automatic door closing device.

191/Mas/89. Vermont American Corporation. Boron treated hard metal.

The 13th March 1989

192/Mas/89. TVS-Suzuki Limited. A variable compression ratio internal combustion engine.

193/Mas/89. Unisearch Limited. Improved solution growth of silicon films. (March 11, 1988; Australia),

The 14th March 1989

194/Mas/89. Sorg GMBH &amp; Co. Kg. Glass Melting furnace for generator gas.

195/Mas/89. Schubert &amp; Salzer Maschinenfabrik Aktiengesellschaft. A method and device for winding cross-wound bobbins.

196/Mas/89. Pesto KG. A fluid power operated feed device.

197/Mas/89. Minnesota Mining and Manufacturing Company. Polymer claddings for optical fiber Waveguides.

198/Mas/89. Weirton Steel Corporation. Container enclosure.

The 15th March 1989

199/Mas/89. Institut Francais Du Petrole. An improved device for generating acoustic waves by causing a falling mass to strike a target element coupled with the walls of well.

200/Mas/89. International Thermal Packaging, Inc. Apparatus and method for simultaneously heating and cooling separate zones.

201/Mas/89. Maschinenfabrik Rieter AG. An apparatus for cleaning a card.

The 16th March 1989

202/Mas/89. OL-Neg Television Products, Inc. Glass Feeder Tube-stirrer Assembly.

203/Mas/89. Renato Mandarini. Method and apparatus for greatly reducing the fuel consume and environment polluting substances in internal combustion engines and combustion processes.

204/Mas/89. The Charles Stark Draper Laboratory, Inc. Method and apparatus for manipulating and transporting limp material.

205/Mas/89. The U A B Research Foundation and Southern Research Institute. Method of potentiating and immune response and composition therefor.

The 17th March 1989

206/Mas/89. Henkel Kommanditgesellschaft auf Aktien. A process for the catalytic hydrogenation of liquid fatty acid triglycerides for the simultaneous recovery of fatty alcohols.

207/Mas/89. Minnesota Mining and Manufacturing Company. Internally illuminated retroreflective sign.

208/Mas/89. Dana Corporation. Friction laminate &amp; disk assembly.

209/Mas/89. Italmimpianti Societe Italiana Impianti p a. Method and apparatus for the positioning of slabs.

## ALTERATION OF DATE

164650

Anti-dated 9th March, 1983.

(797/Cal/86).

## OPPOSITION PROCEEDINGS

An opposition has been entered by Jay Engineering Works Limited to the grant of a patent on application No. 163362 made by Khaitan Electrical Limited.

## PATENTS SEALED

144001	161967	162182	162297	162475	162671	162675
162684	162706	162736	162738	162739	162747	162749
162752	162865	162897	162898	162899	162900	162913
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CAL — 15 Cases

BOM — 2 Cases

DEL — 24 Cases

MAS — 8 Cases.

## RENEWAL FEES PAID

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160104	160203	160204	160213	160214	160215	160254
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160409	160442	160449	160456	160465	160468	160473
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160956	161029	161030	161132	161162	161211	161232
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161821	161892	161977	161980	161998	162087	162097
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## CESSATION OF PATENTS

148532	148533	148536	148537	148541	148542	148543
148544	148545	148546	148548	148549	148552	148554
148559	148560	148561	148564	148565	148566	148570
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NAME INDEXES OF APPLICANTS FOR PATENT FOR THE MONTH OF MAY, 1988 (Nos. 350/Cal/88 to 444/Cal/88, 116/Bom/88 to 156/Bom/88, 278/Mas/88 to 375/Mas/88 AND 376/Del/88 to 484/Del/88)

*Name & Appln. No.*

## A

Abhijat Equipments Pvt. Ltd.—118/Bom/88.  
 Acumeter Laboratories, Inc.—392/Del/88.  
 Agrawal, M. D.—154/Bom/88, 155/Bom/88.  
 Agromore Limited.—370/Mas/88.  
 Aktiengesellschaft Kuhnle.—319/Mas/88.  
 Albright & Wilson Ltd.—469/Del/88.  
 Alcan International Limited.—381/Del/88, 468/Del/88.  
 Allegheny Ludlum Steel Corporation.—463/Del/88.  
 Allsop, J. R.—318/Mas/88.  
 Alsthom.—396/Del/88, 380/Cal/88.  
 Aluminium Pechiney.—429/Cal/88, 437/Cal/88.  
 American Telephone and Telegraph Company.—371/Mas/88.  
 Ammonia Casale S. A.—282/Mas/88, 283/Mas/88.  
 Anip Faucets Pvt. Ltd.—137/Bom/88.  
 Applications Mecaniques Et Robinetterie Industrielle (A. M. R. I.).—388/Del/88.  
 Astra-Vent AB.—450/Del/88.  
 Atlas Powder Co.—460/Del/88.  
 Atre, V. M.—117/Bom/88.

## B

B. J. Harris Oxford Limited.—383/Cal/88.  
 B. V. Optische Industrie "De Oude Delft".—361/Cal/88, 362/Cal/88.  
 Babcock & Wilcox Company, The.—373/Cal/88.  
 Bajaj Auto Ltd.—139/Bom/88.  
 Balan, S.—327/Mas/88.  
 Bali, R. S.—378/Del/88.  
 Battelle Development Corporation.—285/Mas/88.  
 Belorussky Gosudarstvenny Universitet Imeni V. I. Lenina.—431/Cal/88.

*Name & Appln. No.*

## B (Contd.)

Bharat Heavy Electricals Ltd.—472/Del/88.  
 Bhullar Machines Pvt. Ltd.—440/Del/88.  
 Biomass Development Europe S. A.—406/Cal/88.  
 Bisarya, S.—410/Del/88, 411/Del/88.  
 Bist, G. D.—416/Del/88, 417/Del/88.  
 Blackwood, D. I. J.—443/Del/88.  
 Blackwood, L.—443/Del/88.  
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 British-American Tobacco Company Limited.—363/Mas/88, 364/Mas/88.  
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## C

Calgon Corporation.—332/Mas/88.  
 California Laboratories Inc.—338/Mas/88.  
 Campioin Plastic Industries (P) Ltd.—334/Mas/88.  
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 Ceara Engineering Limited.—420/Del/88.  
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 Cima Bocuze.—412/Cal/88.  
 CIPLA Ltd.—120/Bom/88, 121/Bom/88.  
 Cleanup and Recovery Corporation.—432/Cal/88.  
 Colgate-Palmolive Company.—445/Del/88.  
 Compagnie Francaise D' Etudes Et De Construction "Technip".—459/Del/88.  
 Compagnie Generale Des Etablissements Michelin-Michelin & CIE.—300/Mas/88.  
 Council of Scientific & Industrial Research.—377/Del/88, 415/Del/88, 473/Del/88, 474/Del/88, 475/Del/88, 476/Del/88, 477/Del/88.

## D

Dana Corporation.—335/Mas/88, 375/Mas/88.  
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 Das Gupta, B.—416/Cal/88.  
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 Director, Central Pulp and Paper Research Institute, The.—431/Del/88.  
 Ducati Energit S. P. A.—436/Cal/88.  
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 Dunnigan, J.—295/Mas/88.

## E

E. I. Du Pont De Nemours and Company.—396/Cal/88.  
 Eagle Flask Industries (India) Pvt. Ltd.—156/Bom/88.  
 Eaton Corporation.—366/Cal/88.  
 Elconnex Pty. Ltd.—423/Del/88.  
 Electro-Scan Corporation.—336/Mas/88.  
 E.I. Cohon.—355/Mas/88.

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<b>E (Contd.)</b>	
Elsworth Biotechnology Ltd.—453/Del/88.	Interatom GmbH.—400/Cal/88, 401/Cal/88.
Energy Conversion Devices, Inc.—426/Del/88, 427/Del/88.	International Business Machines Corporation.—480/Del/88, 483/Del/88, 484/Del/88.
Exxon Chemical Patents, Inc.—391/Del/88, 413/Del/88.	Inventio AG.—342/Mas/88, 348/Mas/88.
<b>F</b>	
Fedorov, A. N.—371/Cal/88.	<b>J</b>
Firestone Tire and rubber company, The.—433/Del/88.	J. S. Telecommunication.—304/Mas/88.
Firma Theodor Hymman.—357/Mas/88.	Jacobs Manufacturing Company, The.—413/Cal/88.
Fiziko-Energeticheskyy Institut Akademii Nauk Latvskoi SSR.—403/Cal/88.	Jain, S. S.—376/Del/88.
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<b>G</b>	
General Electric Company.—363/Cal/88, 434/Cal/88, 438/Cal/88.	Jetex Carburators Pvt. Ltd.—131/Bom/88.
General Electric Co. P. L. C., The.—435/Del/88, 436/Del/88, 437/Del/88.	Joshi, S. V.—124/Bom/88, 125/Bom/88.
Ghosh, K. (Dr.).—350/Cal/88.	Jothi, R. N.—308/Mas/88.
Gilbert, M. M.—379/Cal/88.	<b>K</b>
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Hoechst Aktiengesellschaft.—359/Cal/88, 360/Cal/88, 377/Cal/88, 411/Cal/88.	Knight, R. S.—365/Mas/88.
Hoechst celanese Corporation.—425/Cal/88.	Kolvereid, H.—354/Mas/88.
Hsiung, Y. W.—447/Del/88.	Korea Advanced Institute of Science and Technology.—395/Cal/88.
Hussain, Q. Z.—430/Del/88.	Kraft, H. (DIPL-ING).—323/Mas/88.
Hydro Quebec.—382/Del/88.	Krishna Rao, S. V.—361/Mas/88.
<b>I</b>	
IES Limited.—368/Cal/88.	Krone Aktiengesellschaft.—392/Cal/88.
Iev International Pty. Ltd.—461/Del/88.	Kumar, M.—446/Cal/88.
Iambrande Limited.—321/Mas/88.	Kumar, R.—399/Del/88.
Indian Space Research Organisation.—278/Mas/88, 279/Mas/88, 280/Mas/88, 316/Mas/88.	Kumar S.—457/Del/88, 458/Del/88.
Inland Steel Company.—294/Mas/88.	Kutaisky Politeknicheskyy Institut Imeni N. Muskhelishvili.—419/Del/88.
Imperial Chemical Industries PLC.—383/Del/88.	<b>L</b>
Inkster, K. R.—444/Del/88.	L. B. Transmission Meccaniche S. R. L.—454/Del/88.
Insituform Holdings Limited.—328/Mas/88.	IES Laboratories Meram.—425/Del/88.
Institut Elektroscharki Imeni E. O. Patona Akademii nauk ukrainskoi SSR.—422/Cal/88.	Laboratories Delagrangé.—343/Mas/88.
Institut Français Du Pétrole.—293/Mas/88, 329/Mas/88, 366/Mas/88, 367/Mas/88.	Ladrière, S.—388/Cal/88.
Institut Problem Modelirovaniya V Energetike Akademii Nauk Ukrainskoi SSR.—364/Cal/88.	Lakhotia, S.—378/Cal/88.
Institut Strukturnoi Makrokinetiki Akademii Nauk SSSR.—466/Del/88.	Lanxide Technology Company, LP.—381/Cal/88, 402/Cal/88.
	Lee, C. S.—430/Cal/88.
	Lester, B.—408/Del/88.
	Lewis, D. J.—444/Del/88.
	Liquipisigas S.p.A.—288/Mas/88.
	Lubrizol Corporation, The.—470/Del/88, 471/Del/88.
	Luoyang Petrochemical Engineering Corporation Sinopec (I.P.E.C.).—329/Mas/88.
	Lutz, K.—350/Mas/88.

<i>Name &amp; Appln. No.</i>	<i>Name &amp; Appln. No.</i>
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MAC Modern Advanced Concrete S.p.A.—290/Mas/88.	PPG Industries, Inc.—432/Del/88.
Mahakali Industries (M/S.).—123/Bom/88.	Pal, K.—129/Bom/88.
Mahar, S. S.—369/Cal/88.	Pandey, A.—382/Cal/88.
Makeevsky Inshenerno-Stroitelny Institut.—421/Cal/88.	Pandit, B.—417/Cal/88.
Malickal, G. J.—281/Mas/88.	Pattabhi, V.—414/Cal/88, 415/Cal/88.
Mallik, K. N.—394/Del/88, 395/Del/88, 398/Del/88, 400/Del/88.	Pennwalt Corporation.—398/Cal/88.
Mao, R. L. V.—295/Mas/88.	Pettersson, B.—412/Del/88.
Maroo, H. G.—134/Bom/88.	Pfizer Inc.—418/Del/88.
Mars G. B. Limited.—289/Mas/88.	Politov, V. S.—371/Cal/88.
Maschinenfabrik Andritz Actiengesellschaft Stattegetstrabe.—419/Cal/88.	Polymer Papers Ltd.—401/Del/88.
Massen, R. (Prof.).—394/Cal/88.	Porous Plastics Limited.—298/Mas/88.
Mausser-Werke GmbH.—324/Mas/88.	Poseco International Limited.—362/Mas/88.
McConway & Torley Corporation.—399/Cal/88.	Pro-Cord S.r.l.—314/Mas/88.
McLaughlin, G. P.—295/Mas/88.	Procter, & Gamble Co., The.—451/Del/88.
Mehta, N. B.—143/Bom/88.	Projects & Development India Limited.—426/Cal/88, 427/Cal/88.
Merlin Gerin.—347/Mas/88.	<b>R</b>
Mining & Allied Machinery Corporation Limited, Messrs.—435/Cal/88.	R. Guthrie Research Associates Inc.—297/Mas/88.
Mishra, A. C.—478/Del/88.	Rahavaiah, V.—307/Mas/88.
Mitsui Toatsu Chemicals, Incorporated.—409/Cal/88, 441/Cal/88.	Rajuk, P. L.—140/Bom/88.
Motho, G.—385/Del/88.	Ramburt Nominees Pty. Ltd.—444/Cal/88.
Mukherjee, H. K.—116/Bom/88.	Ramon Rovira Mestres & others.—482/Del/88.
Mukhopadhyay, A. K.—376/Cal/88.	Ranadive, H. M.—143/Bom/88.
<b>N</b>	Rangachary, K. A.—286/Mas/88, 287/Mas/88, 359/Mas/88, 360/Mas/88.
Nabisco Brands, INC.—442/Cal/88.	Rao, R.—410/Del/88, 411/Del/88.
Nahar, S. S.—369/Cal/88.	Rautenberg, L. J.—379/Cal/88.
Naidu, V. S. S.—439/Del/88.	Reliance Electric Company.—312/Mas/88.
Naik D. S.—153/Bom/88.	Rhone-Poulenc Chimie.—284/Del/88.
Nair, K. V. R.—144/Bom/88, 145/Bom/88, 146/Bom/88, 147/Bom/88, 148/Bom/88, 149/Bom/88, 150/Bom/88, 151/Bom/88.	Robinson, D. S.—407/Cal/88.
National Council for Cement and Building Materials.—414/Del/88, 479/Del/88.	Rohatgi, K. K.—389/Cal/88.
Nauchno-D Proizvodstvennoe obiedinenie Plastmassy.—423/Cal/88.	Rohm and Haas Co.—442/Del/88.
Nauchno-Issledovatel'ski Sektor-Vchti.—299/Mas/88.	Roy, S. (Smt.).—372/Cal/88.
Nauchno-Proizvodstvennoe Obiedinenie "Dorstroiteknika".—404/Cal/88.	<b>S</b>
Neste Oy Keilahemi.—420/Cal/88.	SAB NIFE AB.—424/Del/88.
Nico Pyrotechnic Hanns-Jurgen Diederichs GmbH & Co. Kg.—405/Cal/88.	S. D. International A/s.—317/Mas/88.
Norsolor.—375/Cal/88, 390/Cal/88.	SKF Textilmaschinen-Komponenten GmbH.—424/Cal/88.
Norton Company.—433/Cal/88.	SPS Technologies, Inc.—387/Del/88.
<b>O</b>	Sahgal, T. K.—357/Cal/88.
Opti Patent-Forschungs-und Fabrications-Ag.—408/Cal/88.	Saini, G. C.—418/Cal/88.
Otis Elevator Company.—380/Del/88.	Scopas Technology Company Inc., The.—385/Cal/88.
Outboard Marine Corporation.—374/Cal/88.	Searle (India) Ltd.—119/Bom/88.
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	Shah, P. M.—126/Bom/88.
	Shankar, T. N. U.—291/Mas/88.
	Shell Internationale Research Maatschappij B. V.—315/Mas/88.
	Shell Oil Company.—481/Del/88.
	Sheth, V. A.—135/Bom/88, 136/Bom/88.

Name &amp; Appln. No.

S (Contd.)

Singer & Hersch Industrial Development (Proprietary) Ltd.—389/Del/88.  
 Skega AB.—310/Mas/88.  
 Societe De Conseils De Recherches Et D' Applications Scientifiques (S.C.R.A.S.).—452/Del/88, 455/Del/88.  
 Societe d' Etudes Scientifiques et Industrielle de l'Île-de-France.—325/Mas/88.  
 Societe Nationale Industrielle Aerospatiale.—434/Del/88.  
 Spruyt Hillen B. V.—407/Del/88.  
 Sripoorna Plastech Private Limited.—368/Mas/88.  
 Steiner, W.—313/Mas/88.  
 Stopinc Aktiengesellschaft.—397/Cal/88.  
 Sulzer Brother Ltd.—406/Del/88.  
 Surgikos, Inc.—351/Cal/88, 352/Cal/88, 353/Cal/88, 354/Cal/88, 355/Cal/88.  
 Swil-Technik AG.—390/Del/88.

T

Tamil Nadu Agro Engineering and Service Co-operative Federation Limited.—326/Mas/88.  
 Tapnikar, S. M.—122/Bom/88.  
 Templeton, Kenyl & Co.—356/Mas/88.  
 Textile & Allied Industries Research Organization, The.—130/Bom/88.  
 Tharmaratnam, P.—346/Mas/88.  
 Thiruvankatesalu, S. N.—345/Mas/88.  
 Ti Automotive Division of Ti Canada Inc.—301/Mas/88.  
 Trade & Industry Limited.—428/Cal/88.  
 Trivedi, K.K.R.—133/Bom/88.

U

U.P. National Manufacturers Pvt. Ltd.—422/Del/88.  
 URS Huwyler.—305/Mas/88.  
 Ultramatrix, Inc.—384/Del/88.  
 Uni-Cardan AG.—400/Cal/88, 401/Cal/88.  
 Uni-Frac, Inc.—356/Cal/88, 410/Cal/88.  
 Unilever PLC.—443/Cal/88.  
 Union Carbide Corporation.—309/Mas/88, 320/Mas/88, 331/Mas/88, 358/Mas/88, 409/Mas/88.  
 Unroyal Chemical Co. Inc.—448/Del/88, 449/Del/88, 465/Del/88.  
 University of Florida.—365/Cal/88.  
 University of Sydney, The.—462/Del/88.

V

Vaidyanathan, I. G. I.—303/Mas/88.  
 Venkatarama, J.—344/Mas/88.  
 Verma, B. K. (Dr.).—367/Cal/88.  
 Vijayakumar, R.—302/Mas/88.  
 Vinal Industrial Products, M/s.—127/Bom/88.  
 Viscosvisse S A.—397/Del/88.  
 Vladimir Pavlovich Sergeev & others.—464/Del/88.

Name &amp; Appln. No.

W

W. R. Grace & Co.—428/Del/88.  
 Westinghouse Electric Corporation.—391/Cal/88.  
 West Point Pepperell.—337/Mas/88.  
 Widia (India) Limited.—351/Mas/88, 352/Mas/88, 353/Mas/88, 369/Mas/88.  
 Wyner, D. M.—379/Cal/88.  
 Wyner, J. H.—379/Cal/88.

## COMPLETE SPECIFICATION ACCEPTED

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CLASS : 116-G.

164641

Int. Cl. : B 66 b 9/00.

## LIFTING UNIT FOR PERSONS AND/OR LOADS.

Applicant & Inventor : BERNI JUNG, OF DIESELSTRASSE 22, D-6352 OBER-MORLEN, FEDERAL REPUBLIC OF GERMANY.

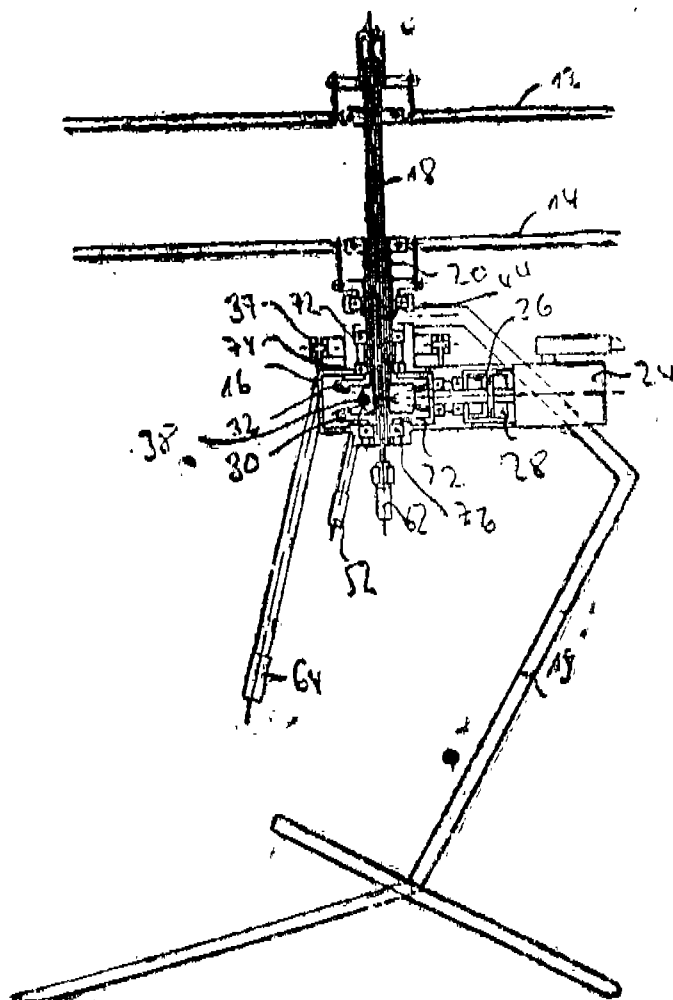
Application No. 20/Cal/85 filed January 11, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 20 Claims

A lifting mechanism for persons and/or goods comprising in combination :

- (a) two rotors running in opposite directions (12, 14);
- (b) a housing (16) suspended by a cardan shaft and housing the drive (22, 24) as well as the drive axles (18, 20) for the rotors (12, 14); and
- (c) a steering unit (36) for synchronised or separate regulation of the blade angle of the rotors (12, 14), said steering unit being engaged in the housing or leaving the housing.



Compl. specn. 17 pages.

Drgs. 3 sheets

CLASS : 195-D.

164642

Int. Cl. : F 16 k 51/00.

### ROTATABLE SHAFT ASSEMBLY.

Applicant : KEYSTONE INTERNATIONAL, INC. OF  
9600 WEST GULF BANK DRIVE HOUSTON, TEXAS  
77040, U.S.A.

Inventors : PAUL ANTHONY YOHNER.

Application No. 183/Cal/85 filed March 12, 1985.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

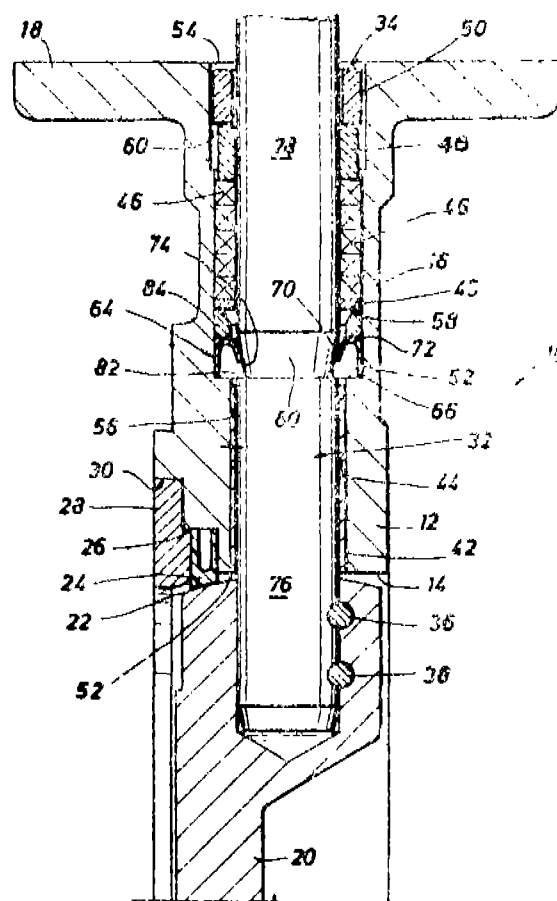
A rotatable shaft assembly comprising :

a body having a bore therein, said bore having a first end and a second end, said body further including an annular abutment formed intermediate said first and second ends of said bore and projecting radially inwardly into said bore;

a shaft rotatably received in said bore, said shaft having means forming an annular, generally axially facing shoulder intermediate the ends thereof, said shoulder having at least one surface facing said second end of said bore;

a retaining collar disposed in said bore adjacent said abutment, said retaining collar comprising an annular band and a plurality of resiliently, radially deflective fingers depending radially inwardly from said band, each of said fingers forming a strut portion terminating in a free end, said free end of said strut portion being engagable with said shoulder upon movement of said shaft toward said second end of said bore whereby said strut portion is placed in substantially compressive loading;

stop means disposed in said bore for stopping movement of said retaining collar toward said second end.



Compl. specn. 12 pages.

Drgs. 2 sheets

CLASS : 89: 116-C; G: 125 B<sub>1</sub> & 126-D.

164643

Int. Cl. : G 01 d 5/00, G 01 f 13/00 & G 01 n 11/00.

AN APPARATUS FOR DETERMINING THE MATERIAL VOLUMETRIC FLOW RATE OF BULK MATERIAL TRANSPORTED BY A CONVEYOR MECHANISM.

Applicant : FRIED KRUPP GESELLSCHAFT MIT BESCHÄFTIGUNG, OF ALTENDORFER STRASSE 103, D-4300 ESSEN 1, WEST GERMANY.



Inventor : BODO REINHOLD

Application No. 719/Cal/85 filed October 11, 1985.

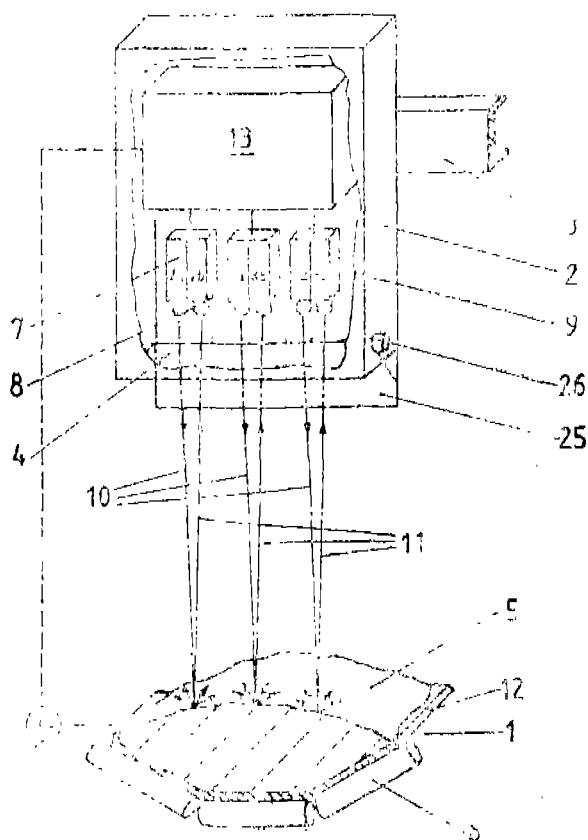
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

An apparatus for determining the material volumetric flow rate of bulk material transported by a conveyor mechanism by continuously determining the contour of the free surface of the bulk material, at right angles to the direction of transport, by means of continuous non-contact distance measurement using at least one transmitter-receiver mechanism including at least two laser distance-measuring devices which operate exclusively for distance measurement via a pulse transit time measuring principle, which are coupled with a computer, and which are employed to determine the bulk material volumetric flow rate by computing the cross section per unit time of the bulk material; said apparatus in combination comprising :

a housing for said transmitter-receiver mechanism including said at least two laser distance-measuring device; said housing having a bottom side, facing said conveyor mechanism, said bottom side including a transparent pane; and

an adjustable flap for blocking said transparent pane; said at least two laser distance-measuring devices being disposed side by side next to one another in said housing in a plane which extends at right angles to the direction of transport of said conveyor mechanism for determination of irregular surface contours of the bulk material being conveyed; said laser distance-measuring devices being operative to emit and receive reflecting laser beams through said transparent plane for such distance measurement continuously to ascertain irregular surface contour of the bulk material transported by the conveyor mechanism in order to determine volumetric flow rate of the material on the conveyor mechanism transverse to direction of movement thereof.



Compl. specn. 10 pages.

Drgs. 3 sheets

CLASS : 32-F<sub>2</sub> b, 104-P & 104-F.

164644

Int. Cl. : C 07 d 251/38.

## PROCESS FOR PREPARING BIS-(2)-ETHYLAMINO-4-DIETHYLAMINO-S-TRIAZIN-6-YL) TETRASULPHIDE.

Applicant : DEGUSSA AKTIENGESELLSCHAFT, OF 6000 FRANKFURT AM MAIN, WEISSFRAUENSTRASSE 9, FEDERAL REPUBLIC OF GERMANY.

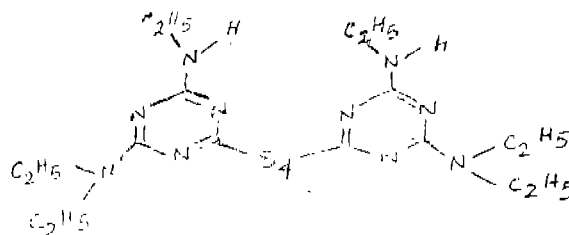
Inventors : 1. DR. WERNER SCHWARZE, 2. SIEGFRIED WOLFF, 3. HANS REMMEL, 4. HORST LAMBERTZ.

Application No. 731/Cal/85 filed October 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A process for the production of Bis-(2-ethylamino-4-diethylamino-s-triazin-6-yl) tetrasulphide of formula 1 of the accompanying drawings



reacting on aqueous alkaline solution of 2-ethylamino-4-diethylamino-6-mercaptoptriazine at temperature below 10°C with a solution of sulphur chloride (S<sub>2</sub>Cl<sub>2</sub>) in an inert organic solvent which does not dissolve or only slightly dissolves the resulting tetrasulphide.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS 32-A<sub>1</sub>.

164645

Int. Cl. : C 09 b 45/12.

## PROCESS FOR PREPARING LITHIUM SALTS OF ANIONIC DYES HAVING PREFERABLY FIBER-REACTIVE GROUPS.

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) FRITZ HEININGER, (2) LUDWIG SCHLAFFER.

Application No. 828/Cal/85 filed November 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims

A process for preparing the lithium salt of an anionic dyestuff containing a fiber-reactive group, which comprises reacting a salt of this anionic dyestuff, in the form of a salt other than the lithium salt, in aqueous solution or suspension, with a compound which releases a calcium ion at a temperature of 50 to 80°C to form the water-insoluble or sparingly water-soluble calcium salt of that dyestuff, the aqueous reaction medium is then cooled to temperature between room temperature and 10°C, the precipitated calcium salt of that dyestuff is separated from the aqueous medium and washed, after separation, with an aqueous calcium chloride solution, and the moist calcium salt of that dyestuff is then reacted in aqueous suspension with the equivalent amount or with an amount

of up to 10% in excess of lithium sulfate or lithium hydrogensulfate or a mixture thereof at a temperature of from 10 to 50°C, in order to convert the calcium salt of that dye-stuff into its lithium salt.

Compl. specn. 33 pages.

Drgs. 3 sheets

CLASS : 35/E.

164646

Int. Cl. : C 04 b 35/00.

PROCESS FOR THE MANUFACTURE OF BASIC REFRACTORY BRICKS.

Applicant : ORISSA CEMENT LIMITED AND DALMIA INSTITUTE OF SCIENTIFIC & INDUSTRIAL RESEARCH, BOTH OF RAJGANGPUR-770017, DIST.-SUNDARGARH, ORISSA, INDIA.

Inventors : 1. DR. SHYAM LAXMAN KOLHATKAR, 2. DR. JAJNYADATTA PANDA, 3. DR. NILACHAL SAHOO, 4. JAI NARAYAN TIWARI.

Application No. 21/Cal/86 filed January 13, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A process for the manufacture of basic refractory bricks which comprises preparing a mixture of the following ingredients in the following proportions :—

Sintered and/or Fused Magnesite	75 to 95% by wt.	} (Total 100% by weight)
Graphitised carbon which has major exothermic peak at above 500°C in		
DAT	5 to 25% by wt.	
Resinous binder	2 to 10 parts by wt.	
Additive as herein described	0.5 to 5 parts by wt.	
Catalyst (Hexamethylene Tetramine)	upto 1.5 parts by wt.	

intimately mixing the above ingredients, moulding the mixture into the shape of bricks and subjecting the said bricks to baking at above 100°C to 300°C.

Compl. specn. 7 pages.

Drg. Nil

CLASS : 25-A.

164647

Int. Cl. : C 04 b 27/00.

A PROCESS AND AN APPARATUS FOR PRODUCING GLAZED CERAMIC TILES.

Applicant : CERAMICA FILIPPO MARAZZI S. P. A. VIA DELLA ZECCA, 1, 40121 BOLOGNA, ITALY.

Inventor : FILIPPO MARAZZI.

Application No. 84/Cal/86 filed February 06, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

An improved process of forming a glazed ceramic starting from a raw ceramic body comprising the steps of placing the ceramic body in a furnace for a first phase of thermal treatment at the conclusion of which the reactions of firing of the ceramic material are substantially complete, and a second phase of thermal treatment entailing a gradual final cooling, characterized in that it includes, between the first and second stage of thermal treatment, a phase of distributing onto said ceramic body, substantially at the final temperature which it had in the first phase of thermal treatment, a loose dry glaze during the initial part of said second phase, the ceramic body being brought to a temperature sufficient for the glaze to vitrify by the melting of at least one component part thereof.

Compl. specn. 25 pages.

Drg. 1 sheet

CLASS : 32 F, C.

164648

Int. Cl. : C 07 c 103/34, 103/36.

AN IMPROVED METHOD FOR THE PREPARATION OF A MIXTURE OF MONOMETHYLFORMAMIDE AND DIMETHYLFORMAMIDE.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U. S. A.

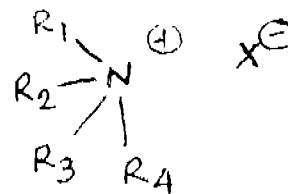
Inventor : HAROLD EDWARD BELLIJS.

Application No. 130/Cal/86 filed February 20, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

An improved process for the preparation of a mixture of monomethylformamide and dimethylformamide by the conventional catalytic reaction of formamide and methanol, the improvement comprising using as the catalyst a quaternary ammonium compound represented by the structure shown in Figure 1 of the accompanying drawings



wherein  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  individually represents an alkyl radical of 1—12 carbon atoms; a hydroxy ethyl radical; a phridyl radical; or a benzyl radical; and X represents Cl, Br or I.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS :

164649

Int. Cl. : G 05f 1/20, 1/66; G 06c 23/00; G 06d 3/00; G 06f 3/00 and H 02j 3/00.

ELECTRIC POWER PLANT AUTOMATIC CONTROL APPARATUS.

Applicant : HITACHI, LTD., OF 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. ATSUSHI TAKITA, 2. AKIRA SUGANO.

Application No. 720/Cal/86 filed October 01, 1986.

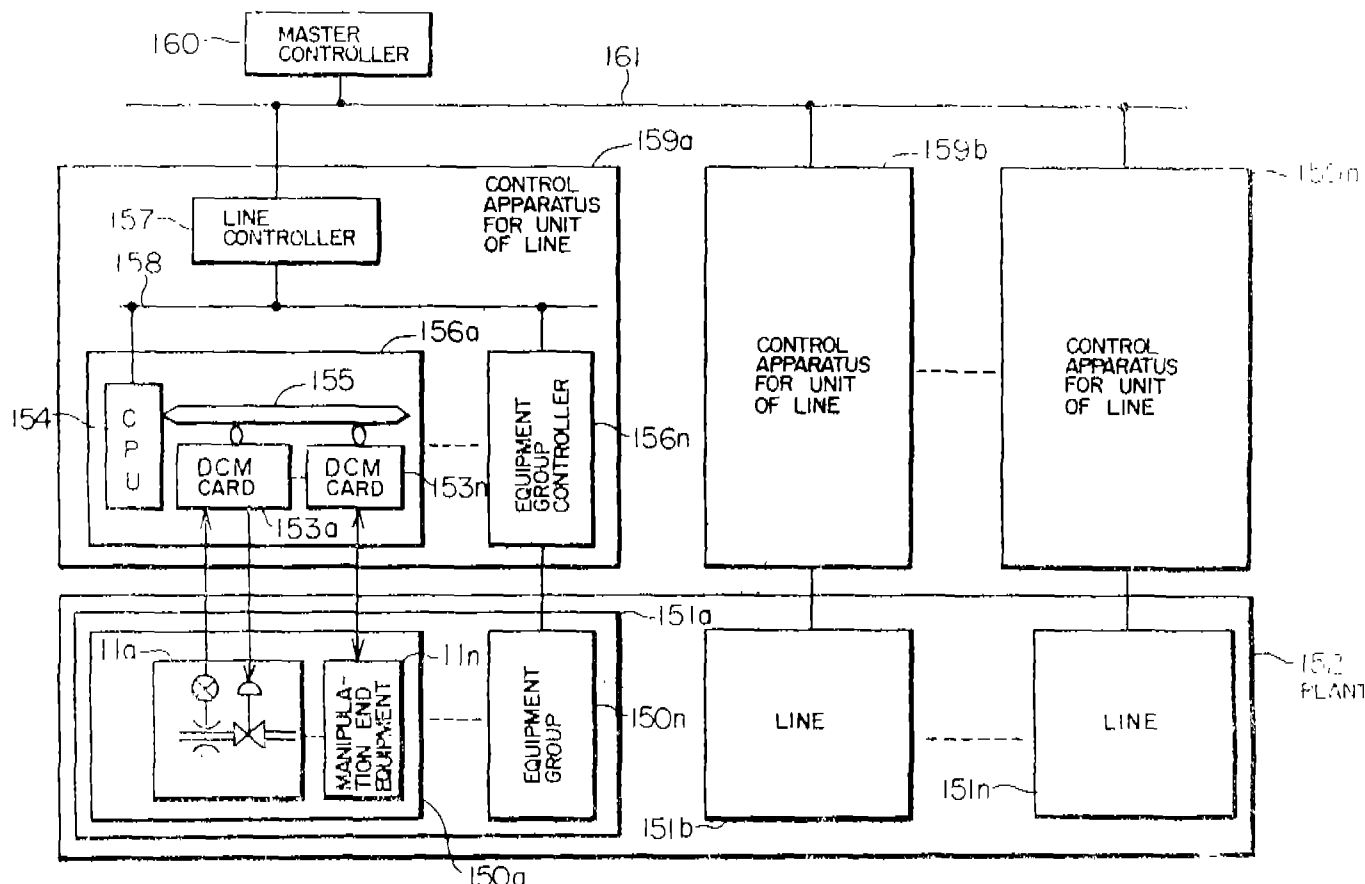
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

In a decentralized control system for individually controlling line equipments of an electric power plant wherein a plurality of manipulation end equipments (11a-11n) constitute an equipment group, a plurality of the equipment groups (150a-150n) constitute a process line, and a plurality of the process lines (151a-151n) constitute said electric power plant (152), and an electric power plant automatic control apparatus characterized in that :

a line controller (157) is disposed in a unit of said

process line (151a-151n),  
an equipment group controller (156a-156n) is disposed in a unit of said equipment group (150a-150n),  
a plurality of drive control module cards (153a-153n) manipulatable independently from said control system are disposed in said equipment controller respectively corresponding in a one-to-one relationship to one of said plurality of manipulation end equipments (11a-11n), each of said manipulation end equipments being a minimum constitution unit of said plant; and  
a CPU (154) is provided to control said plurality of drive control module cards through an process input/output bus (155).



Compl. specn. 20 pages.

Drgs. 8 sheets

CLASS : 84-B.

164650

## 13 Claims

Int. Cl. : C 10 I 1/14.

AN EMULSIFYING PREPARATION FOR USE IN FORMING EMULSIONS OF LIQUID HYDROCARBONS WITH WATER OR ALCOHOLS.

Applicant : APACE RESEARCH LIMITED, OF 130 DOWLING STREET, DUNGOG, NEW SOUTH WALES, AUSTRALIA.

Inventor : RUSSELL ROBERT REEVES.

Application No. 797/Cal/86 filed November 03, 1986.

Conventional dated 12th March, 1982 (Australia) PF 3086 and 30th November, 1982 (Australia) PF 7052.

[Divisional of Application No. 290/Cal/83, dated the 9th March, 1983].

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

An emulsifying preparation for use in forming emulsions of liquid hydrocarbons with water or alcohols, said emulsions consisting of a phase comprising liquid hydrocarbons selected from gasoline having a boiling point of less than 190°C, a kerosene having a boiling point of from 190 to 230°C, a diesel oil having a boiling point of from 230 to 315°C, a gas oil having a boiling point from 315 to 480°C, and a hydrocarbon liquid having a boiling point of greater than 480°C; a phase comprising water or an alcohol; and the emulsifying preparation, said emulsifying preparation comprises (a) an emulsifier which is a block copolymer comprising at least one block (A) comprising a polymer of :

- (i) an optionally ring-substituted styrene, or
- (ii) a conjugated dien

and at least one block (B) comprising :

- (i) a polyether of the formula  $H(OR)_nOH$ , where R is a bivalent aliphatic hydrocarbon moiety having from 1 to 4 carbon atoms and n is an integer of from 4 to 4000, or an ester thereof or

- (ii) a polymer of a polar olefin, the polarity of the olefin being such that the polymer thereof is solvated by water or alcohol; and
- (b) Optionally a coupling agent which is soluble in the continuous phase of the emulsion and substantially insoluble in the dispersed phase thereof, and which couples with the polymer blocks of the said copolymer which is solvated by the continuous phase of the emulsion.

Compl. specn. 18 pages.

Drg Nil

Int. Cl.<sup>4</sup> : A 61 F 5/52, 5/37.

164651

A DEVICE FOR GIVING RELIEF TO LIMBS SUBJECT TO PAIN AND FOR TREATMENT OF DEFORMED LIMBS.

Applicant & Inventor : PRASHUBH BATHAM, 356, DR. BATHAM ROAD, RAIL BAZAR KANPUR-208004, INDIA, AN INDIAN NATIONAL.

Application for Patent No. 491/Del/85 filed on 24th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A device for giving relief to limbs subject to pain and for treatment of deformed limbs comprising two horizontal planks located one above the other, the opposed surfaces of the planks being hollowed to accommodate a leg or hand having pain, the lower plank being supported on a platform said platform provided below of said lower plank a jack for raising or lowering the lower plank above said platform, rack, and pinion mechanisms for raising or lowering the upper plank relative to the lower plank, a wheel mounted on the lower plank, a lever of the adjustable length fixed at its ends to a spoke of the wheel and the upper plank and an electric motor connected to said wheel by belt for rotating the said wheel.

Compl. specn. 7 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : C 09 D 5/10.

164652

"A PROCESS FOR THE PREPARATION OF A ZINC RICH PRIMER BASED ON ALKYL SILICATE FOR CORROSION PROTECTION OF STEEL".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ARUN KUMAR DEY, ARABINDA NATH MUKHERJEE AND PERI PRABHAKARAN.

Application for Patent No. 631/Del/85 Filed on 2nd August, 1985. Complete specification left on 29th October, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

An improved process for the preparation of anticorrosive primer for the protection of steel which comprises reacting zinc powder and a hydrolysed alkyl silicate wherein the sili-

cate is hydrolysed with acidulated water in an amount less than stoichiometric amount needed, heating the mixture to a temperature in the range of 80° to 110°C to remove the alcohol formed to an extent of 50 to 60% hydrolysis and adding 2-ethoxy ethanol in proportion to the alcohol expelled.

Provisional specification 4 pages.

Compl. specn. 8 pages.

Int. Cl.<sup>4</sup> : C 04 B 7/36.

164653

"A PROCESS FOR THE MANUFACTURE OF CEMENT CLINKER".

Applicant : NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS (A BODY UNDER THE GOVT. OF INDIA, DEVOTED TO RESEARCH, TECHNOLOGY DEVELOPMENT AND TRANSFER, EDUCATION AND INDUSTRIAL SERVICES, M-10, SOUTH EXTENSION II RING ROAD, NEW DELHI-110 049.

Inventors : HOSAGRAHARA CHANDRA SEKHARAIH VISVESVARAYA, SHIBAN JI RAINA, KAMAL KUMAR, ASHWANI PAHUA AND SHREE GOPAL.

Application for Patent No. 734/Del/85 filed on 4th September, 1985. Complete specification left on 22nd January, 1987. Post dated to 4th December, 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 3 Claims

An improved process for the manufacture of cement clinker which comprises in preparing a raw meal such as herein described by a known method, firing said meal in a kiln to obtain cement clinker characterized in the step of adding chloride and fluoride bearing compounds to said raw meal.

Provisional Specification 4 pages.

Compl. specn. 6 pages.

Int. Cl.<sup>4</sup> : C 23 C 10/50.

164654

AN IMPROVED PROCESS FOR DIFFUSION ALUMINISING OF SHAPED ARTICLES OF LOW CARBON STEEL AND LOW ALLOY STEEL.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001 INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PRABHAKARAN PERI, ARABINDANATH MEKHERJEE AND TRIPURARILAL SHARMA.

Application for Patent No. 782/Del/85 filed on 25th September, 1985.

Complete specification left on 16th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

An improved process for diffusion aluminising of shaped articles of low carbon steel and low alloy steel comprising degreasing and pickling of said articles followed by drying

them, packing the dried articles in a pack mixture characterised in heating a pack mixture consisting of powdered Fe-Al alloy, ceramic grog such as calcined alumina, kyanite, fire clay etc. and an activator such as ammonium chloride in a reactor, to a temperature in the range of 900—950°C, slow cooling the articles to a temperature of about 200°C removing the articles from the reactor and cleaning them.

Provisional Specification 4 pages.

Compl. specn. 7 pages.

Int. Cl.<sup>4</sup> : F 02 D 1/10, 39/00.

164655

# DELIVERY VALVE FOR MECHANICAL PUMPS FOR THE DIRECT INJECTION OF FUELS IN CONTROLLED-IGNITION ENGINES.

Applicant : PIAGGIO & C. S. p. A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. CECCHI 6, GENOVA, ITALY, AND SPICA A.p.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA ENRIQUEZ 15, LIVORNO, ITALY.

Inventors : PIERO BALDINI AND MAURO FORAPIANI.

Application for Patent No. 836/Del/85 filed on 9th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

Delivery valve for mechanical pumps for the direct fuel injection in controlled-ignition engines comprising a body intended to be fastened in a tight arrangement on the body of the pump, said valve comprising a through bore, a stem slidingly guided within said bore and having an axial blind cavity and out-flow radial bores on upper half of the stem, said stem being provided with a seal collar at predetermined distance from said radial bores, elastically urged against a conical seat provided in the valve body, characterised in that, in the zone between said outflow radial bores and immediately beneath said seal collar, said stem has at least one micrometric radial bore acting as delivery calibrator of fuel at the low rotation rates of about 1100 to 1200 R.P.M. of the pump.

Compl. specn. 8 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : F 02 D, 1/00.

164656

# FUEL INJECTION MECHANICAL PUMP, IN PARTICULAR FOR INTERNAL COMBUSTION ENGINES WITH CONTROLLED IGNITION.

Applicant : PIAGGIO & C. S. p. A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. CECCHI-6, GENOVA, ITALY, AND SPICA A.P.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA ENRIQUEZ, 15, LIVORNO, ITALY.

Inventors : PIERO BALDINI AND MAURO FORAPIANI.

Application for Patent No. 838/Del/85 filed on 9th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

Mechanical pump for the direct injection of fuel into the combustion chamber of an internal combustion engine, comprising :

a cylinder and a plunger slidingly and rotatingly received in said cylinder, said cylinder having a fuel delivery chamber therein;

a plurality of duct means for selectively delivering fuel from a fuel tank into said fuel delivery chamber, from said fuel delivery chamber to a combustion chamber of an engine and from said fuel delivery chamber to the fuel tank upon return of said plunger from its compression stroke;

characterised by said duct means having at least two chordal grooves provided in an exterior cylindrical surface of said plunger, each of said chordal grooves being connected to a respective longitudinal groove of said duct means also provided in said plunger exterior cylindrical surface for fluid communication therebetween said duct means also having bores in said plunger for placing each of said chordal grooves in fluid communication with said fuel delivery chamber, at least one transverse passageway extending through said cylinder, said plunger being rotatable upon its return from its compression stroke to a position at which said longitudinal grooves are in fluid communication with said at least one transverse passageway for returning fuel from said fuel delivery chamber through said bores, chordal grooves and ports in the cylinder connectable to the fuel tank.

Compl. specn. 15 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 02 C 15/00.

164657

# VERTICAL GRINDING MILL.

Applicant : KUBOTA LIMITED, A JAPANESE COMPANY, OF 2-47, SHIKITSUJIGASHI 1-CHOME, NANIWA-KU, OSAKA, JAPAN.

Inventors : IWAO IKEBUCHI, KAZUO FUSE AND AKIRA GANSE.

Application for Patent No. 844/Del/85 filed on 10th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A vertical grinding mill comprising :

a shell within which both the material to be pulverised and the grinding medium are located;

a vertical screw shaft mounted for rotation within said shell so as to agitate said material and said grinding medium whereby said material is pulverised to fine particles;

means for driving said screw shaft, suction creating means in communication with said finely ground particles for withdrawal thereof from said shell and collector means connected between said suction means and said shell for collecting said finely ground particles entrained in said fluid current;

characterised in that said screw shaft is hollow with its open bottom end located at the bottom of said shell and said shell is provided at its upper end with at least one vent;

said suction creating means being connected through said collector means either to said vent or to the open upper end said hollow screw shaft whereby said hollow screw shaft into said shell and then upwardly through said shell to exit through said vent or in through said vent, downwardly through said shell and then upwardly through said hollow screw shaft to exit from the upper end thereof, the entrained finely ground particles of material in said current being in each instance collected in said collector means.

Compl. specn. 13 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : C 07 D 453/00.

164658

"IMPROVEMENT IN OR RELATING TO A PROCESS FOR THE PREPARATION OF QUINIDINE FROM QUININE".

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001 INDIA. AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ASISH KUMAR BANERJEE, SUKHENDU BIKAS CHAUDHURI, SATYESH CHANDRA PAKRASHI AND MITHILES CHAKRABARTY.

Application for Patent No. 1127/Del/85 Filed on 31st December, 1985. Complete Specification left on 12th February, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

An improved process for the preparation of quinidine, which comprises refluxing quinine, benzophenone, sodium methoxide in toluene and further refluxing the mixture in the presence of catalyst consisting of isopropanol, n-propanol and ethanol, cooling the mixture and thoroughly mixing with HCl for separating the quinidine from unreacted quinine and neutralising the acid extract.

Provisional Specification 3 pages.

Compl. specn. 6 pages.

Int. Cl.<sup>4</sup> : B 01 D 33/00, 37/00.

#### AN IMPROVED WATER FILTER.

Applicant & Inventor : INDIRA DEVI VERMA, W/O SHRI RAJENDRA KUMAR, C/O SHRI MANIK CHAND JAI KISHAN GOLD SMITH, P.O. SASNI, ALIGARH, U.P. AN INDIAN NATIONAL.

Application for Patent No. 103/Del/86 filed on 3rd February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

An improved water filter comprising a housing or a container with an inlet at the top for introduction of water to be filtered, an outlet at the base for discharge of the filtered water characterised in a support plate disposed within said housing or container, said support plate being suspended from the upper end of the said housing or container by

means of a resilient member to form a first and a second chamber in the said housing each of variable volume, a filter or a plurality of filters supported on said support plate in the space forming said first chamber.

Compl. specn. 8 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : C 23 C 18/38.

164660

"AN IMPROVED PROCESS FOR MAKING A NOVEL COPPER-COATED STEEL WIRE ELECTRODE".

Applicant : STEEL AUTHORITY OF INDIA LTD., RESEARCH & DEVELOPMENT CENTRE FOR IRON & STEEL, HAVING ITS REGISTERED OFFICE AT ISPAT BHAWAN, LODHI ROAD, NEW DELHI-110003, INDIA. (A GOVT. OF INDIA UNDERTAKING).

Inventors : SAJAL KANTI CHAUDHARI AND SHAMBHU NATH OJHA.

Application for Patent No. 442/Del/85 Filed on 1st June, 1985. Complete Specification left on 2nd June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 14 Claims

An improved process for making a novel copper-coated steel wire electrode of the kind as described herein said process comprises charging 2 percent lime of total mild steel scrap used into an electric arc furnace, melting the mixed charge, refining the molten with iron ore, lime spar and ferro manganese to reduce sulphur and phosphorus contents in the final

product by maintaining a slag basicity of  $\frac{\text{Ca-O}}{\text{SiO}_2} \geq 3.0$  in

the bath having a temperature of 1350°C to 1400°C, deslagging the molten metal till both sulphur and phosphorus contents are reduced to  $\leq 0.025\%$ , deoxidizing the refined hot metal by additional of ferro-silicon followed by low carbon ferro manganese, lime and a reducing mixture, tapping the molten metal at 1600°C to 1625°C with aluminium shots, if necessary, into a ladle containing ferro molybdenum, cleaning the inner walls of ingot moulds and providing them with an arrangement of hot top before teeming at 1580°C to 1600°C, making wire rod of 6—8 mm diameter from ingots in three stages of rolling e.g. bloom making, billet making and wire making, removing oxide scales from said wire rod in a known manner before coating with borax or lime and finally drawing said wire rods into 3.5 mm diameter wire with intermediate annealing treatment and coating with copper either by dipping in acidulated copper sulphate bath in a manner defined herein and coiling said coated wire into a spool or into a moisture-proof and airtight drum.

Provisional Specification 8 pages.

Compl. specn. 21 pages.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class I. No. 160347. Kumar Process Consultants & Chemicals Private Limited, (an Indian Company) at B-406 Shital Apartments, Chagla Road, Ville Parle, Bombay-400 099, State of Maharashtra, India. "Filter". 1st November, 1988.

Class I. No. 160499. Jaya-Hind Industries Limited, an Indian company, of Akurdi, Pune 411 035, State of Maharashtra, India. "A stator of an electric generator". 5th December, 1988.

- Class 1. No. 160500. Jaya-Hind Industries Limited, an Indian company, of Akurdi, Pune 411 035, State of Maharashtra, India. "Coil assembly for the stator of an electric generator". 5th December, 1988.
- Class 3. No. 160092. Logcraft products Manufacturing PTE. LTD., a Company incorporated under the laws of Singapore, of 35 Tannery Road, Hex 05-01, Tannery Block, Ruby Industrial Complex, Singapore 1334. "a Front Panel of a Computer Casing". Reciprocity date is 14th April, 1988 (U.K.).
- Class 3. No. 160121. Eagle Flask Industries Private Limited, (an Indian Company) at Eagle Estate, Talegaon 410 507, District-Pune, State of Maharashtra, India. "MUG". 16th September, 1988.
- Class 3. No. 160124. Raisonne Clock Industries, (a registered Partnership firm) of 9, GIDC, Morbi-363 641, State of Gujarat, India. "Wall Clock Cabinet". 19th September, 1988.
- Class 3. Nos. 160444, 160446, 160448. Pet Industrial Consumer Package (P) Ltd., an Indian Company of Shriram House, 10 Kasturi Estate, Madras-600 086, Tamil Nadu, India. "a Container". 28th November, 1988.
- Class 3. Nos. 160556 & 160558. Hindustan Lever Limited. 165/166, Backbay Reclamation, Bombay-400 020 Maharashtra, India. "Boottle with Cap". Reciprocity date is 20th June, 1988 (U.K.).
- Class 3. No. 160605. Asian Advertisers, a Registered Partnership Firm of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India. "TRAY". 30th December, 1988.
- Class 3. No. 160607. Asian Advertisers, a Registered Partnership Firm of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, India. "Coaster with Stand". 30th December, 1988.
- Class 3. No. 160636. I. V. Sham Cottage Industries, 2292/2, Inside Gate Hakimian, Amritsar 133001, Punjab State, India. "Torch". 10th January, 1989.
- Class 4. Nos. 160557 & 160559. Hindustan Lever Limited, 156/166, Backbay Reclamation, Bombay-400 020, Maharashtra, India. "Bottle with Cap". Reciprocity date is 20th June, 1988 (U.K.).
- Class 11. No. 160601. H. P. Textile Mills, 1-Ganesh Chandra Avenue, 6th Floor, Calcutta-700013, West Bengal, India. "Underwear". 30th December, 1988.
- Class 12. Nos. 160349 & 160350. Hindustan Cocoa Products Limited Incorporated in India, 19 Bhulabhai Desai Road, Bombay-400 026, State of Maharashtra, India. "Biscuits". 3rd November, 1988.
- Class 13. Nos. 160186 & 160190. Personal Products Company, a company incorporated under the laws of New Jersey of Van Liew Avenue, Milltown, New Jersey 08850, U. S. A. "Sanitary Napkin". 23rd September, 1988.
- Extn. of Copyright for the Thlrd period of five years.*  
No. 155795. Class-3.
- Extn. of Copyright for the Thlrd period of five years*  
Nos. 155795, 148584, 148408, 148406. Class-3.

R. A. ACHARYA,  
Controller General of Patents,  
Designs and Trade Marks

